These 1983 county population estimates supercede those published in N. C. Population Projections, 1984 Edition.

STATE OF NORTH CAROLINA

Office of State Budget & Management
Research and Planning Services
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# PROVISIONAL ESTIMATES OF THE POPULATION OF NORTH CAROLINA COUNTIES
## July 1, 1983

This report presents provisional population estimates for North Carolina and its counties as of July 1, 1983. These estimates were prepared through the Federal State Cooperative Program for Local Population Estimates. The objective of this program is the development and publication of yearly population estimates for counties using uniform procedures standardized for data input and methodology. The estimates shown here were prepared jointly by the Bureau of the Census and the Office of State Budget and Management, the agency designated by the Governor to work with the Bureau of the Census in implementing and carrying out the objectives of the Federal-State Cooperative Program for Local Population Estimates. These estimates will be published in rounded form in Current Population Reports, Series P-26 later this year.

The methods used to prepare these estimates were selected jointly by North Carolina and the Bureau of the Census. A variety of methods was tested against the 1980 census. Then, based on these test results, the most appropriate methods were selected specifically for North Carolina. For most states, including North Carolina, the best estimates were obtained from an average of the estimates produced by the Ratio-Correlation method and thos_ produced by the Administrative Records method. For a more overall estimates program, see Series P-26. An analysis will be published soon in Current Population.

The county estimates shown for July 1, 1983 are based on an average of the following methods:

1. **The Regression (Ratio-Correlation) method.** In the Regression method, a multiple-regression equation is used to relate changes in the distribution of a number of different data series to changes in the distribution of population among counties. For both the development of the regression equation and the computation of the population estimates, the data for all variables are transformed by calculating ratios of percentage shares in the later year to corresponding percentage shares in the earlier year. These transformations cause the resulting coefficients in the prediction equation to add approximately to 1.0. The series of data used in the Regression method for North Carolina are



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Federal income tax returns (X1), school enrollment in grades 1 through 8 (X2), and automobile registrations (X3). The regression equation for North Carolina is given by

$$y = 0.019 + 0.296(X1) + 0.336(X2) + 0.385(X3)$$

2. **The Administrative Records method.** This is a component method that uses Federal tax data to measure the net intercounty migration of the nongroup quarters population under 65 years old, reported resident birth and death statistics to estimate net natural change, and data on Medicare enrollees to estimate the population 65 years old and over. Tax data are used in the base year and the estimate year to determine the number of persons whose county of residence changed during the period. A net migration rate based on exemptions claimed by the matched cases is applied to the nongroup quarters population under 65 years old. These estimates of migration are then combined with the independent estimates of the population 65 years old and over, inmates of institutions, college students in dormitories, military personnel living in barracks, and the other components of population change (births, deaths, immigration from abroad, and net movement between the military and civilian population) to yield an overall estimate of the total population. The estimates shown in this report were developed by averaging estimates based on the above-cited independent methods and controlling the averaged estimates to the State estimate for North Carolina.

The 1980 census populations for the State and counties reflect corrections made through July, 1984. The births and deaths are based on reported vital statistics for calender years 1980, 1981, 1982, and 1983. Each total was made by adding 3/4 the value for 1980, the entire values for 1981 and 1982, and 1/2 the value for 1983. Net migration is the residual difference between net total change and natural increase.

## Estimates of the Population of North Carolina Counties: July 1, 1983

| County | July 83 estimate | April 80 (census) | Difference Number | % | Births | Deaths | Migration Number | % |
|---|---|---|---|---|---|---|---|---|
| Alamance | 101,286 | 99,319 | 1,967 | 2.0 | 3,762 | 2,973 | 1,178 | 1.2 |
| Alexander | 26,051 | 24,999 | 1,052 | 4.2 | 1,074 | 599 | 577 | 2.3 |
| Alleghany | 9,827 | 9,587 | 240 | 2.5 | 354 | 317 | 203 | 2.1 |
| Anson | 26,120 | 25,649 | 471 | 1.8 | 1,215 | 843 | 99 | 0.4 |
| Ashe | 23,037 | 22,325 | 712 | 3.2 | 910 | 694 | 496 | 2.2 |
| Avery | 14,795 | 14,409 | 386 | 2.7 | 634 | 401 | 153 | 1.1 |
| Beaufort | 42,036 | 40,355 | 1,681 | 4.2 | 1,908 | 1,385 | 1,158 | 2.9 |
| Bertie | 21,331 | 21,024 | 307 | 1.5 | 1,079 | 739 | -33 | -0.2 |
| Bladen | 30,581 | 30,491 | 90 | 0.3 | 1,330 | 960 | -280 | -0.9 |
| Brunswick | 41,150 | 35,777 | 5,373 | 15.0 | 1,745 | 1,039 | 4,667 | 13.0 |
| Buncombe | 164,498 | 160,934 | 3,564 | 2.2 | 6,448 | 5,212 | 2,328 | 1.4 |
| Burke | 74,073 | 72,504 | 1,569 | 2.2 | 2,817 | 1,746 | 498 | 0.7 |
| Cabarrus | 90,353 | 85,895 | 4,458 | 5.2 | 3,691 | 2,570 | 3,337 | 3.9 |
| Caldwell | 67,828 | 67,746 | 82 | 0.1 | 2,762 | 1,580 | -1,100 | -1.6 |
| Camden | 5,861 | 5,829 | 32 | 0.5 | 226 | 178 | -16 | -0.3 |
| Carteret | 45,554 | 41,092 | 4,462 | 10.9 | 2,200 | 1,270 | 3,532 | 8.6 |
| Caswell | 21,719 | 20,705 | 1,014 | 4.9 | 831 | 566 | 749 | 3.6 |
| Catawba | 109,298 | 105,208 | 4,090 | 3.9 | 4,503 | 2,616 | 2,203 | 2.1 |
| Chatham | 34,497 | 33,415 | 1,082 | 3.2 | 1,571 | 956 | 467 | 1.4 |
| Cherokee | 19,672 | 18,933 | 739 | 3.9 | 763 | 552 | 528 | 2.8 |
| Chowan | 12,739 | 12,558 | 181 | 1.4 | 591 | 456 | 46 | 0.4 |
| Clay | 6,926 | 6,619 | 307 | 4.6 | 265 | 229 | 271 | 4.1 |
| Cleveland | 83,688 | 83,435 | 253 | 0.3 | 3,609 | 2,393 | -963 | -1.2 |
| Columbus | 51,511 | 51,037 | 474 | 0.9 | 2,684 | 1,626 | -584 | -1.1 |
| Craven | 74,645 | 71,043 | 3,602 | 5.1 | 4,952 | 1,633 | 283 | 0.4 |
| Cumberland | 250,552 | 247,160 | 3,392 | 1.4 | 17,095 | 4,081 | -9,622 | -3.9 |
| Currituck | 12,588 | 11,089 | 1,499 | 13.5 | 524 | 335 | 1,310 | 11.8 |
| Dare | 15,327 | 13,377 | 1,950 | 14.6 | 674 | 378 | 1,654 | 12.4 |
| Davidson | 115,831 | 113,162 | 2,669 | 2.4 | 4,656 | 2,716 | 729 | 0.6 |
| Davie | 26,577 | 24,599 | 1,978 | 8.0 | 922 | 594 | 1,650 | 6.7 |
| Duplin | 41,131 | 40,952 | 179 | 0.4 | 1,816 | 1,306 | -331 | -0.8 |
| Durham | 157,471 | 152,785 | 4,686 | 3.1 | 6,788 | 4,177 | 2,075 | 1.4 |
| Edgecombe | 57,321 | 55,988 | 1,333 | 2.4 | 2,818 | 1,748 | 263 | 0.5 |
| Forsyth | 252,341 | 243,704 | 8,637 | 3.5 | 10,246 | 6,659 | 5,050 | 2.1 |
| Franklin | 31,242 | 30,055 | 1,187 | 3.9 | 1,205 | 998 | 980 | 3.3 |
| Gaston | 167,181 | 162,568 | 4,613 | 2.8 | 7,569 | 4,331 | 1,375 | 0.8 |
| Gates | 9,050 | 8,875 | 175 | 2.0 | 391 | 281 | 65 | 0.7 |
| Graham | 7,104 | 7,217 | -113 | -1.6 | 318 | 180 | -251 | -3.5 |
| Granville | 35,900 | 34,043 | 1,857 | 5.5 | 1,359 | 1,125 | 1,623 | 4.8 |
| Greene | 16,473 | 16,117 | 356 | 2.2 | 773 | 412 | -5 | -0.0 |
| Guilford | 323,073 | 317,154 | 5,919 | 1.9 | 13,458 | 8,373 | 834 | 0.3 |
| Halifax | 55,695 | 55,076 | 619 | 1.1 | 2,930 | 1,936 | -375 | -0.7 |
| Harnett | 61,597 | 59,570 | 2,027 | 3.4 | 3,064 | 1,768 | 731 | 1.2 |
| Haywood | 46,955 | 46,495 | 460 | 1.0 | 1,601 | 1,424 | 283 | 0.6 |
| Henderson | 63,277 | 58,580 | 4,697 | 8.0 | 2,396 | 2,061 | 4,362 | 7.4 |
| Hertford | 23,739 | 23,368 | 371 | 1.6 | 1,191 | 737 | -83 | -0.4 |
| Hoke | 21,897 | 20,383 | 1,514 | 7.4 | 1,111 | 449 | 852 | 4.2 |
| Hyde | 5,941 | 5,873 | 68 | 1.2 | 284 | 210 | -6 | -0.1 |
| Iredell | 84,973 | 82,538 | 2,435 | 3.0 | 3,517 | 2,346 | 1,264 | 1.5 |
| Jackson | 26,874 | 25,811 | 1,063 | 4.1 | 1,005 | 620 | 678 | 2.6 |

**Estimates of the Population of North Carolina Counties: July 1, 1983 (cont.)**

| County | July 83 estimate | April 80 (census) | Difference Number | % | Births | Deaths | Migration Number | % |
|---|---|---|---|---|---|---|---|---|
| Johnston | 73,125 | 70,599 | 2,526 | 3.6 | 3,120 | 2,239 | 1,645 | 2.3 |
| Jones | 9,772 | 9,705 | 67 | 0.7 | 424 | 254 | -103 | -1.1 |
| Lee | 38,470 | 36,718 | 1,752 | 4.8 | 1,937 | 1,117 | 932 | 2.5 |
| Lenoir | 60,530 | 59,819 | 711 | 1.2 | 2,764 | 1,898 | -155 | -0.3 |
| Lincoln | 43,626 | 42,372 | 1,254 | 3.0 | 1,831 | 1,058 | 481 | 1.1 |
| McDowell | 36,094 | 35,135 | 959 | 2.7 | 1,450 | 916 | 425 | 1.2 |
| Macon | 22,312 | 20,178 | 2,134 | 10.6 | 764 | 710 | 2,080 | 10.3 |
| Madison | 16,954 | 16,827 | 127 | 0.8 | 604 | 539 | 62 | 0.4 |
| Martin | 26,268 | 25,948 | 320 | 1.2 | 1,204 | 822 | -62 | -0.2 |
| Mecklenburg | 424,839 | 404,270 | 20,569 | 5.1 | 19,931 | 9,546 | 10,184 | 2.5 |
| Mitchell | 14,281 | 14,428 | -147 | -1.0 | 614 | 503 | -258 | -1.8 |
| Montgomery | 23,242 | 22,469 | 773 | 3.4 | 1,028 | 706 | 451 | 2.0 |
| Moore | 52,916 | 50,505 | 2,411 | 4.8 | 2,305 | 1,770 | 1,876 | 3.7 |
| Nash | 69,309 | 67,153 | 2,156 | 3.2 | 3,368 | 2,105 | 893 | 1.3 |
| New Hanover | 108,819 | 103,471 | 5,348 | 5.2 | 4,513 | 2,952 | 3,787 | 3.7 |
| Northampton | 22,585 | 22,584 | 1 | 0.0 | 1,055 | 831 | -223 | -1.0 |
| Onslow | 118,373 | 112,784 | 5,589 | 5.0 | 9,435 | 1,491 | -2,355 | -2.1 |
| Orange | 79,661 | 77,055 | 2,606 | 3.4 | 2,918 | 1,477 | 1,165 | 1.5 |
| Pamlico | 10,612 | 10,398 | 214 | 2.1 | 420 | 342 | 136 | 1.3 |
| Pasquotank | 28,642 | 28,462 | 180 | 0.6 | 1,484 | 876 | -428 | -1.5 |
| Pender | 23,337 | 22,262 | 1,075 | 4.8 | 1,030 | 678 | 723 | 3.2 |
| Perquimans | 9,704 | 9,486 | 218 | 2.3 | 433 | 300 | 85 | 0.9 |
| Person | 29,895 | 29,164 | 731 | 2.5 | 1,163 | 848 | 416 | 1.4 |
| Pitt | 94,303 | 90,146 | 4,157 | 4.6 | 4,292 | 2,337 | 2,202 | 2.4 |
| Polk | 14,158 | 12,984 | 1,174 | 9.0 | 439 | 548 | 1,283 | 9.9 |
| Randolph | 94,739 | 91,300 | 3,439 | 3.8 | 3,723 | 2,183 | 1,899 | 2.1 |
| Richmond | 45,103 | 45,481 | -378 | -0.8 | 2,038 | 1,455 | -961 | -2.1 |
| Robeson | 104,594 | 101,610 | 2,984 | 2.9 | 5,915 | 2,800 | -131 | -0.1 |
| Rockingham | 84,891 | 83,426 | 1,465 | 1.8 | 3,557 | 2,495 | 403 | 0.5 |
| Rowan | 101,341 | 99,186 | 2,155 | 2.2 | 4,194 | 3,157 | 1,118 | 1.1 |
| Rutherford | 55,709 | 53,787 | 1,922 | 3.6 | 2,298 | 1,701 | 1,325 | 2.5 |
| Sampson | 50,054 | 49,687 | 367 | 0.7 | 2,253 | 1,597 | -289 | -0.6 |
| Scotland | 33,336 | 32,273 | 1,063 | 3.3 | 1,662 | 875 | 276 | 0.9 |
| Stanly | 49,002 | 48,517 | 485 | 1.0 | 1,970 | 1,402 | -83 | -0.2 |
| Stokes | 34,426 | 33,086 | 1,340 | 4.1 | 1,310 | 804 | 834 | 2.5 |
| Surry | 59,780 | 59,449 | 331 | 0.6 | 2,364 | 1,787 | -246 | -0.4 |
| Swain | 10,672 | 10,283 | 389 | 3.8 | 576 | 396 | 209 | 2.0 |
| Transylvania | 24,504 | 23,417 | 1,087 | 4.6 | 878 | 583 | 792 | 3.4 |
| Tyrrell | 4,089 | 3,975 | 114 | 2.9 | 215 | 143 | 42 | 1.1 |
| Union | 75,011 | 70,436 | 4,575 | 6.5 | 3,438 | 1,620 | 2,757 | 3.9 |
| Vance | 37,553 | 36,748 | 805 | 2.2 | 1,809 | 1,250 | 246 | 0.7 |
| Wake | 324,959 | 301,327 | 23,632 | 7.8 | 13,497 | 6,210 | 16,345 | 5.4 |
| Warren | 16,106 | 16,232 | -126 | -0.8 | 761 | 632 | -255 | -1.6 |
| Washington | 14,565 | 14,801 | -236 | -1.6 | 750 | 449 | -537 | -3.6 |
| Watauga | 33,660 | 31,666 | 1,994 | 6.3 | 1,142 | 615 | 1,467 | 4.6 |
| Wayne | 97,961 | 97,054 | 907 | 0.9 | 5,315 | 2,668 | -1,740 | -1.8 |
| Wilkes | 59,898 | 58,657 | 1,241 | 2.1 | 2,413 | 1,552 | 380 | 0.6 |
| Wilson | 64,290 | 63,132 | 1,158 | 1.8 | 3,096 | 1,959 | 21 | 0.0 |
| Yadkin | 29,176 | 28,439 | 737 | 2.6 | 1,047 | 774 | 464 | 1.6 |
| Yancey | 15,236 | 14,934 | 302 | 2.0 | 573 | 427 | 156 | 1.0 |
| North Carolina | 6,081,668 | 5,881,252 | 200,416 | 3.4 | 274,955 | 159,175 | 84,636 | 1.4 |



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